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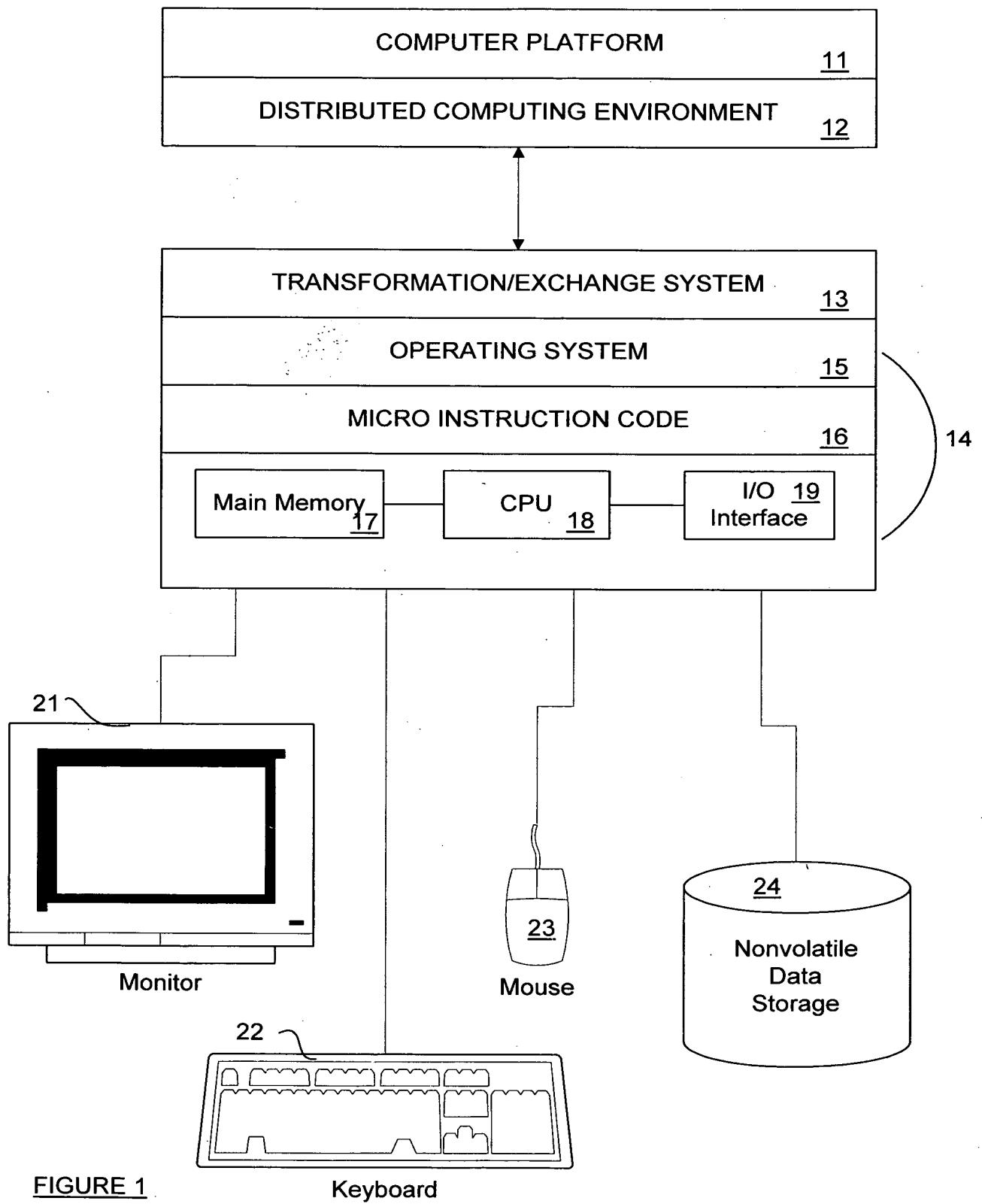


FIGURE 1

Keyboard



ODBC database : ADDRESS.MDB 101

FIRST_NAME	LAST_NAME	ADDRESS	CITY	COUNTRY	AGE
Bob	Drake	10 Penny St.	Toronto	CA	29
Susan	Hellman	55 Birch Rd.	Ottawa	CA	35
John	Bull	101 Pullman Ave.	New York	US	23
Josef	Karsch	31 Rideau St.	Ottawa	CA	85

FIGURE 10

Data Bag : MAILING_DBAG

111

DATA DEFINITION
COLLECTION

112

KEY	ITEM NAME	ITEM TYPE	PARENT	MAX. OCCURS	ITEM COUNTER	LEVEL
FIRST_NAME	FIRST_NAME			1		1
LAST_NAME	LAST_NAME			1		1
ADDRESS	ADDRESS			1		1
CITY	CITY			1		1
COUNTRY	PROV			1		1
AGE	AGE			1		1

DATA GROUP
COLLECTION

113

KEY	VALUE	KEY	VALUE	KEY	VALUE	KEY	VALUE
FIRST_NAME	Bob	FIRST_NAME	Susan	FIRST_NAME	John	FIRST_NAME	Josef
LAST_NAME	Drake	LAST_NAME	Hellman	LAST_NAME	Bull	LAST_NAME	Karsch
ADDRESS	10 Penny St.	ADDRESS	55 Birch Rd.	ADDRESS	101 Pullman Ave	ADDRESS	31 Rideau St.
CITY	Toronto	CITY	Ottawa	CITY	New York	CITY	Ottawa
COUNTRY	CA	COUNTRY	CA	COUNTRY	US	COUNTRY	CA
AGE	29	AGE	35	AGE	23	AGE	85

FIGURE 11

Data Bag : CITY_DBAG

121

DATA DEFINITION COLLECTION		122				
KEY	ITEM NAME	ITEM TYPE	PARENT	MAX. OCCURS	ITEM COUNTER	LEVEL
NAME	NAME	TEXT		1		1
ADDRESS	ADDRESS	TEXT		1		1
CITY	CITY	TEXT		1		1
AGE	AGE	INTEGER		1		1

DATA GROUP COLLECTION		113	
KEY	VALUE	KEY	VALUE
FIRST_NAME	Susan	FIRST_NAME	Josef
LAST_NAME	Hellman	LAST_NAME	Karsch
ADDRESS	55 Birch Rd.	ADDRESS	31 Rideau St.
CITY	Ottawa	CITY	Ottawa
COUNTRY	CA	COUNTRY	CA
AGE	35	AGE	85

FIGURE 12

Delimited Flat File : OTTAWA.CSV

131

Susan Hellman,55 Birch Rd,Ottawa,35
Josef Karsch,31 Rideau St,Ottawa,85

FIGURE 13

FIRST_NAME	CHAR(30)
LAST_NAME	CHAR(30)
ADDR_LINE1	CHAR(30)
ADDR_LINE2	CHAR(30)
CITY	CHAR(30)
PROV	CHAR(30)
NBR_CHILDREN	INTEGER(3)
CHILDREN	OCCURS 1 TO 10 TIMES
CHILD_NAME	CHAR(30)
CHILD_AGE	INTEGER(3)

FIGURE 14

Repeating Data File : REPEAT.TXT 151

Henry	Smith	61 Falldown Rd.	RR1	Greely	Ont	3	Amy	16	John	13	Bob	23
John	Kierste ad	1034 Ayr Place	Apt. 132	Ottawa	Ont	1	Susan	10				

FIGURE 15